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10698 U.S. PTO

PATENT

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12/17/01

ORIGINAL PATENT APPLICATION TRANSMITTAL LETTER

BOX PATENT APPLICATION
U.S. PATENT & TRADEMARK OFFICE
WASHINGTON, DC 20231

Transmitted herewith for filing is the patent application of:

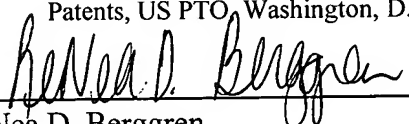
INVENTOR:

Barry Caldwell
512 West Randall
Hesston, KS 67062

Title: Fluted Signal Pin, Cap, Membrane, and Stanchion for a Ball Grid Array

CERTIFICATION UNDER 37 C.F.R. §1.10

I hereby certify that this is an Original Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date, December 17, 2001 in an envelope as "Express Mail Post Office to Addressee", Mailing Label N° EL 789 473 343 US, with sufficient postage, addressed to: Box Patent Application, Assistant Commissioner for Patents, US PTO, Washington, D.C. 20231.


ReNea D. Berggren

DATED: December 17, 2001

1. Type of Application

This is an original application.

2. Benefit of Prior U.S. Application(s) (35 U.S.C. § 120)

USSN

Filing Date

Inventor(s)

Status

3. Papers Enclosed That Are Required for Filing Date under 37 C.F.R. §1.53(b) (Regular) or 37 C.F.R. §1.153 (Design) Application

Eleven (11) Pages of Specification;

Eight (8) Pages of Claims;

One (1) Page of Abstract; and

Five (5) Sheets of Drawing Figures.

4. Additional Papers Enclosed

None.

5. Declaration or Oath

The signed Declaration and Power of Attorney is attached

6. Inventorship Statement

The inventorship for all the claims in this application are the same.

7. Language

English.

8. Assignment

✓ The signed Assignment is attached. The Recordation Form Cover Sheet is enclosed.

9. Certified Copy

None are required.

10. Fee Calculation (37 C.F.R. §1.16)

BASIC FEE							\$740.00
EXCESS CLAIM FEE							
TOTAL OVER TWENTY	37	-20	=	17	X \$18.00		\$306.00
INDEPENDENT OVER THREE	4	-3	=	1	X \$84.00		\$84.00
MULTIPLE DEPENDENT				0	X \$280.00		\$0.00
ASSIGNMENT RECORDATION FEE					\$ 40.00		\$40.00
TOTAL FILING FEES							<u><u>\$1,170.00</u></u>

11. **Small Entity Statement(s)**

None required.

12. **Request for International - Type Search (37 C.F.R. §1.104(d))**

None required.

13. **Authorization to Charge Fees**

The Commissioner is hereby authorized to charge the filing fees of **\$1,170.00** to Deposit Account N° 12-2252. Please charge any underpayments related to this filing or credit any excess to Deposit Account N° 12-2252. A copy of this *Transmittal* is enclosed for accounting purposes only.

Please direct all correspondence and telephone calls to:

PETER SCOTT
INTELLECTUAL PROPERTY LAW DEPARTMENT
LSI LOGIC CORPORATION
M/S D-106
1551 MCCARTHY BLVD.
MILPITAS, CA 95035



DATED: December 17, 2001

Respectfully submitted,
Barry Caldwell,
LSI Logic Corporation,

By Walter J. Malinowski
Walter J. Malinowski
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This Transmittal Ends With This Page.